

THE IMMIGRATION OF LEPIDOPTERA TO THE BRITISH ISLES IN 1992

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THE YEAR 1992 proved to be a memorable year for immigrant butterflies and moths. The arrival in May of a wide variety of species, followed by favourable weather conditions led to the temporary establishment of many species including rarities such as The Ni Moth *Trichoplusia ni* (Hübner) and the Purple Marbled *Eublemma ostrina* (Hübner). As a result it sometimes became difficult to distinguish home-bred examples from primary immigrants.

January and February saw the first examples of the Painted Lady *Cynthia cardui* (Linnaeus) and Red Admiral *Vanessa atalanta* (Linnaeus). Both species continued in above average numbers over the summer and autumn. The Humming-bird Hawkmoth *Macroglossum stellatarum* (Linnaeus) also fared well and was noted in every month from February to October. However, the one immigrant species for which 1992 will always be remembered is the Clouded Yellow *Colias croceus* (Geoffroy). A large and widespread invasion in May and June covered much of the British Isles, with sightings as far north as the Hebrides and the Northern Isles. This, and subsequent breeding, resulted in the largest number ever recorded in Scotland and Northern Ireland, the totals exceeding all previous records put together (Rippey, 1992 and Sutcliffe, 1994).

In mid May parts of the south coast experienced warm winds with "Sahara dust" being reported. This heralded the arrival of the first of the rarities mentioned earlier together with the fourth British example of the Eastern Bordered Straw *Heliothis nubigera* (Herrich-Schäffer) which was recorded in Dorset (VC9). Later in the month, five examples of the Lunar Double-stripe *Minucia lunaris* (Denis & Schiffermüller) were recorded from sites in West Norfolk (VC28), South Essex (VC18), East Sussex (VC14) and Dorset (VC9). These were the first records authenticated by voucher specimens since 1959. On 28 May, Bob Dewick's renowned walk-in trap (in South Essex (VC18)) was graced by the fifth British example of the Dusky Hook-tip *Drepana curvatula* (Borkhausen) together with one of the previously mentioned *M. lunaris*. Fortune again struck three days later in the guise of the tenth record this century of the Purple Cloud *Actinotia polyodon* (Clerck); a gravid female from which a fine series was reared.

The first British record of the Goosefoot Pug *Eupithecia sinuosaria* Eversmann was made when an example was taken in North Somerset (VC6) on 13 June. This was followed by a second in Hertfordshire (VC20) a week later. At about the same time, North Wales celebrated its first example of

Diasema reticularis (Linnaeus); a pyrale with only twelve previously reported records in Britain.

Noteworthy records for the rest of the year were the seventh British example of the Three-humped Prominent *Tritophia tritophus* (Denis & Schiffermüller) from East Suffolk (VC26); the third to fifth mainland records of the Oak Processionary *Thaumetopoea processionea* (Linnaeus) from East Kent (VC15); the sixth Great Dart *Agrotis crassa* (Hübner) (other than from the Channel Islands); the second adult record of the pyrale *Paracorsia repandalis* (Denis & Schiffermüller); and the tenth British example of the Scar Bank Gem *Ctenoplusia limbirena* (Guenée), the last three all from Dorset (VC9). A first-time event for this country was the discovery of larvae of *E. ostrina* in both south-west England and western Ireland. Larvae of *T. ni* were found in Ireland feeding on Hawkweed (*Hieracium* spp.); a new feral foodplant. Larvae of *Tebenna micalis* (Mann) were also found in this country, the occurrence of this species in the British Isles is summarised in Heckford (1993).

In conclusion, it was a remarkable year which might have been even more exceptional had it not been for the gradual deterioration of weather during September over much of the British Isles and for the fact that, except in the extreme south-west of England, the immigrants often anticipated in October failed to appear.

The species listed in the annexes are laid out following Bradley & Fletcher (1979), with amendments where necessary. Many records were supplied by more than one contributor and it is possible that some duplication of records has occurred, although every effort was made to minimise this. Little attempt has been made to interpret locality data and it is probable that the same site is given by different names, e.g. Durlston, Durlston Country Park and Swanage all probably refer to the same locality. Records placed in square brackets either require confirmation, are known to be releases or, in the case of the Cypress Carpet *Thera cypressata* Geyer, are of individuals that are considered to be resident but are included for interest. The abbreviations listed below are used in Annexe 1.

Abbreviations

- I Primary immigrants
- R Resident
- R(i) Recent resident/Invader
- R(t) Temporary resident
- V Vagrant/Wanderer

ANNEXE 1: RECORDS OF "SCARCER" SPECIES

CHOREUTIDAE

Tebenna micalis (Mann) [R(t)]

WEST CORNWALL (1): Kynance Cove, 6.7 - recorded on a leaf of *Pulicaria dysenterica* by day (R.J.B. Hoare per BFS); SOUTH DEVON (3): Chelson Meadow, Plymouth, 8.8 - larvae and 1 adult (Agassiz *et al* 1994 & Heckford 1993); Embankment, Plymouth, 6.8 - larvae and cocoons (Agassiz *et al* 1994 & Heckford 1993); Heybrook Bay, 6.8. - larvae, on *Pulicaria dysenterica* (Agassiz *et al* 1994); Plympton, Plymouth, 1.8 - larvae (Agassiz *et al* 1994 & Heckford 1993); Plympton, Plymouth, 2.8 - larvae (Agassiz *et al* 1994); Plympton, Plymouth, 19.9 - a male to light (Agassiz *et al* 1994 & Heckford 1993); Plympton, Plymouth, 26.9 - larvae and cocoons; 30.9 - larvae and cocoons (Agassiz *et al* 1994); The Warren, nr. Noss Mayo, 5.9 - a few cocoons (Agassiz *et al* 1994); Thurlestone, 31.8 - 2 cocoons (Agassiz *et al* 1994 & Heckford 1993); Wembury, 2.8 - larvae (Agassiz *et al* 1994 & Heckford 1993); GLAMORGAN (41): The Gower, 19.8 - 3 larvae from *Pulicaria dysenterica*; 20.8 - 2 larvae (different locality to those on the 19th) (Agassiz *et al* 1994 & Heckford 1993).

Summary: (1): 1; (3): 2 (+ larvae and cocoons); (41): 5 larvae.

YPONOMEUTIDAE

Yponomeuta evonymella (Linnaeus) [I?]

SOUTH HAMPSHIRE (11): Southsea, 8.7 - 1; 30.7 - 1 (JRL); SOUTH-EAST YORKSHIRE (61): Spurn, 2.7; 22.7 (BS).

PYRALIDAE

Euchromius ocella (Haworth) [I]

DORSET (9): Portland, 19.9 & 22.9 (Agassiz *et al* 1994); Studland, 28.9 (DB).

Evergestis extimalis (Scopoli) [I?/V?]

Note: Records outside Thames Estuary and Breckland only.

DORSET (9): Portland, Freshwater Bay, 8.8 - 1 (JEC); SOUTH-EAST YORKSHIRE (61): Spurn, 30.7 (BS).

Hellula undalis (Fabricius) [I]

WEST CORNWALL (1): The Lizard, 17.9 - 3 (DB); 18.9 - 1 (AG); DORSET (9): Gaunts Common, 19.9 - 1 (PD).

Udea fulvalis (Hübner) [R(t)]

DORSET (9): Highcliffe, 5 noted between 10 & 19.9, a probable colony (Agassiz *et al* 1994 & Wild 1992).

Margaritia sticticalis (Linnaeus) [I]

WEST CORNWALL (1): The Lizard, 17.9 - 1 (DB); DORSET (9): Portland, 10.8 - 1 (RD); St. Albans Head (=St. Aldhelm's Head), 7.8 - 1 (Davey 1993a); EAST KENT (15): Greatstone, 13.9 - 1 male (BB per SPC); SOUTH ESSEX (18): Bradwell-on-Sea, 10.7 - 1; 31.8 - 1 (AJD).

Uresiphita polygonalis (Denis & Schiffermüller) [I]

WEST CORNWALL (1): Coverack, 16.9 - 1; 19.9 - 1 (DB); The Lizard, 17.9 - 1 (DB); DORSET (9): Charmouth, 8.10 - 1 (B.L. Statham per BFS); Portland, 28.9 - 1 (MC); Studland, 29.9 - 1 (DB); ISLE OF WIGHT (10): Chale Green, 19.9 - 1 (SC per SAKJ).

***Sitochroa palealis* (Denis & Schiffermüller) [I?/R?/R(t)?]**

Note: Possible immigrant examples only.

DORSET (9): Durlston, 30.7 - 1 (Davey 1993a); Durlston, 8.8 - 1 (PD); Durlston Head, 2.8 - 1 (DAY); Portland, 31.7 - 1 recorded by day (DAY); SOUTH HAMPSHIRE (11): Chilling, Warsash, 4.8 - 1 (PMP); Southsea, 7.8 - 1 (JRL) (probably resident); Titchfield Haven LNR, 8.8 - 1 (AFS); EAST KENT (15): Dungeness, 7.7 (SPC); 24.7 (DW per SPC); New Romney, 24.7 (KR per SPC); OXFORDSHIRE (23): Long Wittenham, Abingdon, 22.7 - 1; 24.7 - 1; 25.7 - 1; 30.7 - 1 (DO).

Summary: (9): 4; (11): 3; (15): 3; (23): 4.

***Paracorsia repandalis* (Denis & Schiffermüller) [I]**

DORSET (9): St. Albans Head (=St. Aldhelm's Head), 27.9 - 1 (Agassiz *et al* 1994 & Davey 1993a).

***Ostrinia nubilalis* (Hübner) [I?/R?]**

Note: Records outside Thames estuary only.

SOUTH SOMERSET (5): Chard Junction, 6.6; 7.6 (JB per KB); DORSET (9): Durlston, 17.9 (Agassiz *et al* 1994); Gaunts Common, 17.9 - 2; 27.9 - 1 (PD); Portland, 30.6 - 1; 1.7 - 1; 9.8 - 1; 26.9 - 1 (MC); 8.8 - 1 (JRL & RJH); St. Albans Head (=St. Aldhelm's Head), 26.9 - 3; 27.9 - 2 (PD); Studland, 28.9 (DB); ISLE OF WIGHT (10): Chale Green, 23.6 - 1; 25.6 - 1; 31.8 - 1; 21.9 - 3; 25.9 - 1 (SC per SAKJ); Freshwater, 4.7 - 1; 23.7 - 1; 28.9 - 1 (SAKJ); SOUTH HAMPSHIRE (11): Chilling, Warsash, 30.6 - 1 (PMP); Hengistbury Head, 18.9 - 1 (MJ); Southsea, 21.6 - 1; 14.7 - 1 (JRL); Sparsholt, 26.9 - 1 (AHD); Titchfield Haven LNR, 27.5 - 1; 2.7 - 1; 27.9 - 2 (AFS); EAST SUSSEX (14): Peacehaven, 23.6 - 1; 29.6 - 2; 30.6 - 1; 12.7 - 1; 14.7 - 1; 22.7 - 1; 26.9 - 1 (CRP); BERKSHIRE (22): Longworth, Abingdon, 27.9 - 1 female (AK); OXFORDSHIRE (23): Fernham, 15.8; 18.9 (Agassiz *et al* 1994); HUNTING-DONSHIRE (31): Grafham Water, 26.9 - 1 (BD).

Summary: (5): 2; (9): 15; (10): 11; (11): 9; (14): 8; (22): 2; (31): 1.

***Diasemia reticularis* (Linnaeus) [I]**

CAERNARVONSHIRE (49): Treborth Botanic Garden, Bangor, 24.6 (N. Brown *et al*, per Mrs M.J. Morgan. See also Morgan 1993).

***Palpita unionalis* (Hübner) [I]**

DORSET (9): Portland, 1.6 1 (MC); 8.8 - 1 (JRL & RJH); St. Albans Head (=St. Aldhelm's Head), 26.9 - 4; 27.9 - 1 (PD & Davey 1993a); Studland, 29.9 - 1 (DB); Swanage, 27.9 - 2; 28.9 (DB); ISLE OF WIGHT (10): Freshwater, 18.8 - 1; 20.8 - 1; 30.9 - 1 (SAKJ); EAST KENT (15): Dungeness, 25.9 (SPC); 27.9 - 1 (TR); Greatstone, 28.9; 29.9 (BB per SPC); Kingsgate, 27.8 - 1 (FS per TWH); Littlestone, 27.9 (KR per SPC); Parkgate Down, 16.8 - 1 (Dr I.C. Beavis per AME); SOUTH ESSEX (18): Bradwell-on-Sea, 27.9 - 2; 28.9 - 2; 29.9 - 1; 3.10 - 1 (AJD); EAST NORFOLK (27): nr. Cromer, 2.10 - 1 (RC² Per DB); NOTTINGHAMSHIRE (56): Newstead Abbey Park, 29.9 - 1 (KC).

Summary: (9): 11; (10): 3; (15): 7; (18): 7; (27): 1; (56): 1.

***Sciota adelphella* (Fischer von Röslerstam) [R/R(t)?]**

EAST KENT (15): Dungeness, 8.7. - 1 (Skinner 1995a); Greatstone, 8.7 - 1; 15.7 - 1 (Skinner 1995a); 23.8 - 1 larva on *Salix alba* (Skinner 1995a); Lydd, 10.7 - 1 (Skinner 1995a); New Romney, 18.7 - 2 (Skinner 1995a).

Summary: (15): 6 and 1 larva.

***Acrobasis tumidana* (Denis & Schiffermüller) [I]**

DORSET (9): Portland, 10.8 - 1 (Skinner 1995b); WEST SUSSEX (13): Pagham, 14.8 - 1 (Skinner 1995b); EAST KENT (15): Dungeness, 17.8 (Skinner 1995b); Greatstone, 1.8; 10.8 (Skinner 1995b); CHANNEL ISLANDS (113): Moulin Huet, Guernsey, 4.7 (Austin 1992).

***Zophodia grossulariella* (Zincken) [I]**

WEST NORFOLK (28): Rockland, 26.5 (Agassiz *et al* 1994).

***Ancylosis oblitella* Zeller [I/R?/R(t)?]**

DORSET (9): Portland, 16.5 to 29.5 - 4; 23.6 - 2; 1.7 - 1; 11.7 - 1 (MC); Swanage, 22.5 - 1 (Agassiz *et al* 1994); ISLE OF WIGHT (10): Chale Green, 23.6 (Agassiz *et al* 1994); NORTH HAMPSHIRE (12): Leckford, 21.7 (Agassiz *et al* 1994); EAST KENT (15): Dungeness, 7.7 (Agassiz *et al* 1994); WEST NORFOLK (28): Rockland, 6 (PGC per DH).

Summary: (9): 9; (10): 1; (12): 1; (28): 1.

PAPILIONIDAE**The Swallowtail *Papilio machaon* Linnaeus (? *gorganus* Fruhstorfer) [I]**

Note: Except where given the subspecies was not stated for the following records.

DORSET (9): Charmouth, 22.5 - 1, subsp. *gorganus* (per DD); HERTFORDSHIRE (20): Ware, 8 (exact date not given) (I. Watson per GRE & LR); CHANNEL ISLANDS (113): Le Bigard, Guernsey, 23.5 - 1 (C. Winch per RAA).

PIERIDAE**Pale Clouded Yellow *Colias hyale* (Linnaeus) [I]**

[OXFORDSHIRE (23): Radley Gravel Pit, nr. Abingdon, 14.7, record requires confirmation (per DD)]; NORFOLK: 20.5, locality not given (Bowles 1992b); [STERLING (86): Causewayhead, 30.7; 7.8, both only possible sightings (Hancock 1994); Ardrisaig, 5, a possible sighting (F.R.E. Durie per Hancock (1994)].

Berger's Clouded Yellow *C. alfacariensis* Ribbe or Pale Clouded Yellow *C. hyale* (Linnaeus) [I]

GLAMORGANSHIRE (41): Tylorstown, 28.6 (Price 1992); CO. DUBLIN (H21): Skerries, date not given (H.Bird per KGMB).

Clouded Yellow *C. croceus* (Geoffroy) [I]

Note: Widely recorded and large numbers seen. Only the earliest (up until 16.5) and the November records are given here. Unlike the records for other species these are listed in date order. Full details are not given for the records from 9.5 to 16.5.

MAIN ARGYLL (98): Loch Awe, "late April" (Lady M. Stewart per Hancock (1992)); DORSET (9): Worth Matravers, 5.5 - 2 males (SC²); AYRSHIRE (75): 9.5 (T. McFadzean per Hancock (1992)); 10.5 (T. McFadzean per Hancock (1992)); WIGTOWNSHIRE (74): 13.5 (P. Hopkins per R. Sutcliffe). On 14.5, recorded from following VCs: (1); (2); (3); (9); (72); (73); (H37); (H38). On 15.5, recorded from the following VCs: (1); (3); (4); (10); (14); (44); (61); (69); (70); (71); (73); (96); (106); (H38). On 16.5, recorded from the following VCs: (1); (3); (7); (8); (13); (14); (44); (61); (70); (72); (73); (74); (75); (77); (98); (99); (100); (101); (103); (104); (106); (108); (110); (H33); (H36); (H38); (H39).

November records: SOUTH ESSEX (18): Bradwell-on-Sea, 5.11 (AJD); GLAMORGANSHIRE (41): site details not given, 8.11 (per DD); SOUTH DEVON (3): Buckfastleigh, 15.11 (J. Walters).

Bath White *Pontia daplidice* (Linnaeus) [I]

ISLE OF WIGHT (10): Godshell, 5.5, caught in a greenhouse (D.B. Wooldridge per B.S. Lyell).

LYCAENIDAE

Short-tailed Blue *Everes argiades* (Pallas) [I]

EAST SUSSEX (14): Hastings, 15.8 - 1 male found at rest (I. Galbraith per CRP).

NYMPHALIDAE

Large Tortoiseshell *Nymphalis polychloros* (Linnaeus) [I]

EAST KENT (15): Lydd, 31.8 (KR per SPC); HERTFORDSHIRE (20): 6.7 - 1, site details not given (Pittman 1992); WILTSHIRE: Little Langford Down, no date given (D. Simpson-Green per Fuller (1993)); [LANARK (77): Scotstoun, Glasgow: 7 - 4 or 5 (released after breeding, K. Ashton per Hancock (1994))].

Camberwell Beauty *N. antiopa* (Linnaeus) [I]

DEVON: locality not given, 6.3 (Bowles 1992a); SURREY (17): Oxshott, no date given (R.W. Deacon per GRE & LR); WARWICKSHIRE (38): Bearly, 27.9 (IR2 per DB); CHANNEL ISLANDS (113): Herm, 27.9 - 1 (J. Keen per Austin (1992)).

DANAIDAE

The Monarch *Danaus plexippus* (Linnaeus) [I]

SUSSEX: [17.9, a possible sighting, site details not given]; 20.9 (Bowles 1992c); CAMBRIDGESHIRE (29): Wicken Fen, 6.8 - 1 (per B.O.C. Gardiner); WORCESTER-SHIRE (37): Broadway, 24.7 - 1 (J. Parsons).

DREPANIDAE

Dusky Hook-tip *Drepana curvatula* (Borkhausen) [I]

SOUTH ESSEX (18): Bradwell-on-Sea, 28.5 - 1 male (AJD).

GEOMETRIDAE

Blair's Mocha *Cyclophora puppillaria* Hübner [I]

SOUTH WILTSHIRE (8): Bentley Wood, 28.7 - 1; 30.7 - 2 (B. Fox per P. Waring); DORSET (9): Durlston, 8.8 - 1 (Davey 1993b); Portland, 30.7 - 1 (MC); EAST KENT (15): Densole, 27.9 (Rouse 1993); WEST SUFFOLK (26): West Stow, 15.8 - 1 female (RE).

Sub-angled Wave *Scopula nigropunctata* (Hufnagel) [I]

EAST KENT (15): Dungeness, 30.7 - 1 male (SPC).

Tawny Wave *S. rubiginata* (Hufnagel) [I]

NORTH LINCOLNSHIRE (54): Gibraltar Point, 1.8 (CH² & KW per RJ).

Least Carpet *Idaea vulpinaria atrosignaria* Lempke [I?/R?]

Note: Records outside south-east England only.

SOUTH DEVON (3): Abbotskerswell, 31.5 - 1 (BPH); DORSET (9): Portland, 20.7 - 1 (MC); ISLE OF WIGHT (10): Niton, 6.8 - 2 (different localities) (per SAKJ).

The Vestal *Rhodometra sacraria* (Linnaeus) [I]

Summary only: The vice-county number is given in brackets, followed by the number of individuals sighted in each vice-county (or county). Where no numbers were given for an individual record, it was taken to be one. Hence, the totals are likely to be approximate. This is followed by the monthly representation of the records. In a very few cases it was impossible to assign a given record to an individual month. As with the totals for the vice-counties, the monthly totals are likely to be approximate.

(1): 62; (2): 5; (3): 8; Somerset: 1; (9): 55; (10): 11; (11): 14; (12): 10; (13): 10; (14): 6; (15): 21; (16): 2; (17): 2; (18): 17; (20): 1; (22): 6; (23): 3; (26): 1; (27): 3; (28): 1; (38): 3; (41): 1; (54): 1; (56): 1; (71): 10; (72): 1; (113): 5.

May: 25; June: 2; July: 19; August: 100; September: 117; October: 8.

Earliest date: 14.5 - 1, Tregarne, Cusgarne, West Cornwall (1) (AS).
14.5 - 1, Gaunts Common, Dorset (9) (PD).
14.5, Binstead, Isle of Wight (10) (B.J. Warne per SAKJ).
14.5, Lydd, East Kent (15) (KR per SPC).

Latest date: 2.10, Bentley, North Hampshire (12) (ARC).
2.10, East Stratton, North Hampshire (12) (BI-J).
2.10, Uffington, Berkshire (22) (Classey 1993).

The Gem *Orthonama obstipata* (Fabricius) [I]

Summary only: The vice-county number is given in brackets, followed by the number of individuals sighted in each vice-county (or county). Where no numbers were given for an individual record, it was taken to be one. Hence, the totals are likely to be approximate. This is followed by the monthly representation of the records. In a very few cases it was impossible to assign a given record to an individual month. As with the totals for the vice-counties, the monthly totals are likely to be approximate.

(1): 34; (2): 2; (3): 4; (5): 4; (6): 1; (9): 25; (10): 2; (11): 9; (12): 2; (13): 11; (14): 1; (15): 9; (18): 2; (20): 3; (22): 2; (23): 1; (38): 3; (49): 1; (69): 2; (71): 2; (H5): 1.

May: 18; June: 4; July: 17; August: 12; September: 52; October: 5; November: 6.

Earliest date: 16.5, Woolston, South Hampshire (11) (ARC).

Latest date: 23.11 - 1, Walberton, West Sussex (13) (JTR per CRP).

[Cypress Carpet *Thera cupressata* Geyer [R(i)]

Note: All records probably represent resident examples.

DORSET (9): Durlston Country Park, 30.6 - 1 (RJHM); Portland, 10.6 - 1; 20.6 - 1 (MC); ISLE OF WIGHT (10): Chale Green 28.11 (Colenutt 1993); St. Lawrence, 17.9 - 2 fresh males (JC); CHANNEL ISLANDS (113): Guernsey, regularly recorded between 13.6 and 18.7 (Austin 1992); Guernsey, regularly recorded between 20.9 and 5.11 (Austin 1992).]

Goosefoot Pug *Eupithecia sinuosaria* Eversmann [I?]

NORTH SOMERSET (6): Berrow, 13.6 (Slade & Agassiz 1992); HERTFORDSHIRE (20): Knott Wood, Harpenden, recorded between 19 & 21.6 - 1, (Townsend & Riley 1992).

The Channel Islands Pug *Eupithecia ultimaria* Boisduval [I?/R?]

WEST SUSSEX (13): Climping, 27.6 (JTR per BFS).

Dusky Peacock *Semiothisa signaria* (Hübner) [I]

EAST KENT (15): Dover, 1.6 - 2 (Harman 1993); Kingsgate, 29.5 - 1 (Harman 1993); HERTFORDSHIRE (20): Harpenden, 2.7 - 1 (Townsend, 1993).

Rannoch Looper *Semiothisa brunneata* (Thunberg) [I]

SURREY (17): Lingfield, 12.6 - 1 "very large fresh male" (JC); NOTTINGHAMSHIRE (56): Newstead Abbey Park, 14.6 - 1 (KC); MID-WEST YORKSHIRE (64): Harrogate, 13.6 - 1 (recorded by Dr G.T. Foggitt per Riley (1993)).

SPHINGIDAE**Convolvulus Hawkmoth *Agrius convolvuli* (Linnaeus) [I]**

Summary only: The vice-county number is given in brackets, followed by the number of individuals sighted in each vice-county (or county). Where no numbers were given for an individual record, it was taken to be one. Hence, the totals are likely to be approximate. This is followed by the monthly representation of the records. In a very few cases it was impossible to assign a given record to an individual month. As with the totals for the vice-counties, the monthly totals are likely to be approximate.

(1): 39+; (3): 8; Devon (Tiverton): 1; (6): 1; (9): 49; (10): 13; (11): 6; (12): 2; (13): 13; (14): 29; Sussex: 1; (15): 56; (16): 2; (17): 2; (18): 12; (19): 2; (23): 1; (27): 7; (28): 1; (38): 1; (44): 1; (53): 1; (54): 6; (55): 1; (58): 1; (61): 2; (62): 2; (70): 2; Cumbria: 1; (71): 1; (90): 1; (91): 4; (92): 6; (93): 4; (94): 2; (95): 3; Maureen "A" Platform, North Sea, 1; (108): 1; (111): 30+; (112): 19; (113): 6; (H3): 1; (H4): 1; (H37): 1 (possibly 2); (H38): 2; (H39): 1; Northern Ireland, Dundalk: 1.

May: 7; June: 3; July: 2 (+ larva); August: 94; September: 201+; October: 6; November: 1.

Earliest date: 23.5 - 1, St. Alban's Head, Dorset (9) (PD).

Latest date: 2.11 - 1 found dead, Walton-on-Naze, North Essex (19) (J. Pyle per CRP).

Death's-head Hawkmoth *Acherontia atropos* (Linnaeus) [I]

WEST CORNWALL (1): St. Agnes, Isles of Scilly, 9.9 (remains found in bee-hive) 26.9 (JWH & MEH); NORTH SOMERSET (6): North Cadbury, 23.9 (R. Wheeler per KB); SOUTH HAMPSHIRE (11): Lymington, 14.9 (Pickles & Pickles 1993); WEST SUSSEX (13): Southwick, second week of 9 - 1 (per DD); EAST SUSSEX (14): Hastings, 17.9 - 1 (N. Smith per CRP); SOUTH ESSEX (18): Bradwell-on-Sea, 12.9 - 5 larvae on spindle bushes (AJD); Canewdon, 8.10 (GAP per BG²); Colchester, 26.9 - 1 female found dead (K. Mills per JPB); Southminster, no date but recorded in the "autumn" (GAP per BG²); The Street, Bradfield, 4.8 - 1 seen to alight on a tree trunk at 9.00am, flew off when approached (D. Barnden per JPB); "EAST NORFOLK" ("27"): Blakenbury, 22.9 (recorded at sea) (A. Hobbs per SAKJ); WEST GLOUCESTERSHIRE (34): Severn Beach, 6.8 - 1 at rest on a telegraph pole (P.M. Thompson); SOUTH-EAST YORKSHIRE (61): Spurn, 18.9 - 1 (BS); CUMBERLAND (70): Petteril Bank, Carlisle, 19.9 - 1 (DWK); ISLE OF MAN (71): Ballachristory, 9.8 - 1 larva (recorder not given, per GDC); Castletown, 14.9 - 1 (recorder not given, per GDC); AYRSHIRE (75): Barr, late 5 - 1 found dead (C. Woodward per Hancock (1994)); SOUTH ABERDEENSHIRE (92): Cults, Aberdeen, 18.9 (K. Carter per MRY); SHETLAND ISLANDS (112): Scalloway, 23.9 (J.S. Blackadder per MGP); Sullom Voe Terminal, 1.6, date of the record is approximate (R. Gallagher per MGP); MID CORK (H4): Rochestown, 14.9 - 1 (D. Fair per KGMB); EAST CORK (H5): Youghal, 11.8 - 1 larva (KGMB).

Summary: (1): 2; (6): 1; (11): 1; (13): 1; (14): 1; (18): 4 (+ 5 larvae); ("27"): 1; (34): 1; (61): 1; (70): 1; (71): 1 and 1 larva; (75): 1; (92): 1; (112): 2; (H4): 1; (H5): 1.

Pine Hawkmoth *Hyloicus pinastri* (Linnaeus) [I?/V?]

Note: Possible immigrant examples only.

EAST KENT (15): Greatstone, 24.5; 21.7 (BB per SPC); Lydd, 22.5; 28.5; 31.5 (KR per

SPC); NORTH ESSEX (19): Saffron Walden, 8.7 (AME per BG²); St. Osyth, 23.6; 14.7 (RWA per BG²); SOUTH-EAST YORKSHIRE (61): Spurn, 30.6 - 1 (BS).

Humming-bird Hawkmoth *Macroglossum stellatarum* (Linnaeus) [I/R(t)?/R?]

Summary only: The vice-county number is given in brackets, followed by the number of individuals sighted in each vice-county (or county). Where no numbers were given for an individual record, it was taken to be one. Hence, the totals are likely to be approximate. This is followed by the monthly representation of the records. In a very few cases it was impossible to assign a given record to an individual month. As with the totals for the vice-counties, the monthly totals are likely to be approximate.

(1): 58+ (+ 1 larva); (2): 1; Cornwall: 1; (3): 32+; (5): 2; (6): 9; (9): 30; (10): 5; (11): 4; (12): 10; (13): 12+; (14): 38; Sussex: 3; (15): 2; (16): 3; (17): 1; (18): 11; (19): 5; (20): 6; (21): 1; (22): 3 (1 ovipositing on *Galium aparine*); (23): 1; (24): 3; (25): 1; (27): 3; (28): 2+; (29): 1; (31): 1; (32): 3; (33): 1; (34): 1; (35): 1; (38): 2; (39): 1; (45): 2+; (53): 1; (54): 6; (56): 7; (57): 3; (58): 4; (59): 2; (60): 3; (61): 14; (62): 2; (63): 1; (64): 2; (69): 3; (70): 5; Cumbria: 1; (71): 9; (72): 1; (73): 1; (74): 1; (75): 1; (77): 1; (83): 1; (86): 1; (91): 2; (92): 4; (93): 1; (112): 7; (113): 13; Co. Kerry: 1; (H3): 1; (H4): 5; (H9): 2; Co. Galway: 1; (H21): 1; (H33): 8+; (H36): 3; (H37): 10; (H38): 50; (H39): 41; Northern Ireland; "dozens".

February: 2; March: 2; April: 5; May: 133; June: 55+; July: 26 (+ 1 larva); August: 190+; September: 69+; October: 5.

Earliest date: 29.2 - 1, Brighton, Sussex (T. Toohig per CRP).

29.2 - 1, Chichester, West Sussex (13) (M. Green per CRP).

Latest date: 29.10, Newmilns, Ayrshire (75) (N. Young per Hancock (1994)).

Bedstraw Hawkmoth *Hyles gallii* (Rottemburg) [I]

SOUTH SOMERSET (5): Kingsbury Episcopi, 8.8 (RC per KB); NORTH HAMPSHIRE (12): East Stratton, 8.6 - 1 (BI-J); EAST KENT (15): Newington, 12.6 (REL); OXFORDSHIRE (23): Long Wittenham, Abingdon, 24.6 - 1 (DO); WEST NORFOLK (28): Hockwold, 1.8 - 1, last instar larva on *Galium verum* (JF); SOUTH-EAST YORKSHIRE (61): Bridlington, 22.6 (per PQW); EASTERNESS (96): Loch an Eilein, 17.8 (D. Carstairs per MRY); SHETLAND ISLANDS (112): Fetlar, 14.8 - larva (L. Baisley per MGP); Gloup, Yell, 16.6 (C. Guy per MGP).

Striped Hawkmoth *H. lineata livornica* (Esper) [I]

WEST CORNWALL (1): Praa Sands, nr. Helston, 20.5 -3; 22.5 - 1 (RD²); The Lizard, 19.8 - 2 (AJ per DB & Jenkins (1993)); SOUTH SOMERSET (5): Chard Junction, 17.5 (JB per KB); Kingsbury Episcopi, 21.5 (RC per KB); DORSET (9): Boscombe, Bournemouth, 2.6 - 1 found dead (M.M. Brooks); Chardstock, 14.5 - 2 (Jenkins 1993); Corfe, 20.5 - 1 (DB² per RJHM); Durlston, 23.5 - (P. Sharp per DB); Gaunts Common, 27.5 - 1 (PD); Portland, 23.5 - 1; 20.8 - 1 (MC); Shillingstone, 21.8 - 1 (N. Butt); St. Albans Head (= St. Aldhelm's Head), 15.5 - 1 (PD); 23.5 - 1 (Davey 1993); 27.5 - 1 (PD); Swanage (Durlston Country Park), 14.5 - 2; 15.5 - 1; 22.5 - 2 (BFS); 22.5 1; 24.5 - 2; 25.5 - 3; 26.5 - 1; 31.5 - 1 (DB); 21.5 - 1; 22.5 - 4 (RJHM); 25.5 - 1; 26.5 - 1 (JC); ISLE OF WIGHT (10): nr. Shalfleet, 28.5 - 1 (Waring 1994); SOUTH HAMPSHIRE (11): Brockenhurst, 13.5 - 1 (JEC); East End, nr. Lymington, 10.8 - 1 (D. Reas); Titchfield Haven LNR, 16.9 - 1 (AFS); WEST SUSSEX (13): Littlehampton, 3.6 - 1 (Mrs R. Pratt per CRP); EAST SUSSEX (14): Peacehaven, 1.6 - 1 (CRP); Ringmer, 26.5 - 1 (AB per CRP); EAST KENT (15): Dungeness, 25.5 - 1 (KR per SPC); Hamstreet, 27.5 - 1 (NRD per SPC); SOUTH ESSEX (18): Bradwell-on-Sea, 20.5 - 1 female (SD);

NORTH ESSEX (19): Saffron Walden, 9.8 (AME per BG²); HUNTINGDONSHIRE (31): Ramsey Heights Clay Pits, 26.5 - 1 (NN per BD); NORTHAMPTONSHIRE (32): Castor Hanglands, 22.5 - 1 (Waring 1994); CHANNEL ISLANDS (113): Forest, Guernsey, 6.9 - 1 (TNDP); WEST CORK (H3): Trafrask, 26.5 - 1 (KGMB); MID CORK (H4): Cork, 27.5 - 1 (L. O'Flynn per KGMB); SOUTH-EAST GALWAY (H15): Leigh South, 1.6 - 3; 4.6 - 1 (BE & BFS, see also Elliott & Skinner 1993); (H38): Bangor, 16.5 (D. Mc'Anally & D. Allen per IR).

Summary: (1): 6; (5): 2; (9): 33; (10): 1; (11): 3; (13): 1; (14): 2; (15): 2; (18): 1; (19): 1; (31): 1; (32): 1; (113): 1; (H3): 1; (H4): 1; (H15): 4; (H38): 1.

Silver-striped Hawkmoth *Hippotion celerio* (Linnaeus) [I]

CHANNEL ISLANDS (113): St. Peters, Guernsey, 27.9 - 1 (Dr P.D.M. Costen).

NOTODONTIDAE

Three-humped Prominent *Tritophia tritophus* (Denis & Schiffermüller) [I]

EAST SUFFOLK (26): Walberswick, 24.7 (recorded by I. Whapshott per BFS).

THAUMETOPEIDAE

Oak Processionary *Thaumetopoea processionea* (Linnaeus) [I]

EAST KENT (15): Dungeness 9.8 - 2 males (DW per SPC); Greatstone, 10.8 - 1 male (RET per SPC).

LYMANTRIIDAE

Brown-tail *Euproctis chryorrhoea* (Linnaeus) [I?/V?/R?]

Note: Record outside known resident range.

SOUTH-EAST YORKSHIRE (61): Spurn, 23.7 - 1 (BS).

Gypsy Moth *Lymantria dispar* (Linnaeus) [I]

SOUTH SOMERSET (5): Kingsbury Episcopi, 18.8 (RC per KB); EAST KENT (15): Greatstone, 25.8 - 1 male, (BB per SPC); CHANNEL ISLANDS (113): Forest, Guernsey, 16.7 - 1 (TNDP).

ARCTIIDAE

Dotted Footman *Pelosia muscerda* (Hufnagel) [I]

SOUTH ESSEX (18): Bradwell-on-Sea, 19.9 - 1 (SD).

Hoary Footman *Eilema caniola* (Hübner) [I?/V?]

DORSET (9): Durlston Country Park, 18.8 - 1 (RJHM); ISLE OF WIGHT (10): Freshwater, 20.8 - 1 (Knill-Jones 1993).

Pigmy Footman *E. pygmaeola* (Doubleday) [I?/V?]

Note: Subspecies not recorded.

DORSET (9): Portland, 30.7 - 1 (MC).

Four-spotted Footman *Lithosia quadra* (Linnaeus) [I]

DORSET (9): Durlston Country Park, 9.7 - 2 (RJHM); EAST KENT (15): Hamstreet, 18.9 - male (M. Tickner per SPC).

Speckled Footman *Coscinia cribraria arenaria* (Lempke) [I]

CHANNEL ISLANDS (113): Burnt Lane, Guernsey, 4.7 - 1 (W. Angel per Austin (1992)); Forest, Guernsey, 16.7 - 1, continental form (TNDP).

Crimson Speckled *Utetheisa pulchella* (Linnaeus) [I]

WEST CORNWALL (1): Coverack, 18.9 - 1; 20.9 - 1 female (DB); SOUTH SOMERSET (5): Kingsbury Episcopi, 17.9 (RC per KB); SOUTH HAMPSHIRE (11): Sandy Point, Hayling Island, 19.9 - 1 (I. Thirlwell per PMP); WEST SUSSEX (13): Walberton, 21.9 - 1 (JTR per CRP); EAST KENT (15): Dymchurch, 26.9 - 1 (JO).

Jersey Tiger *Euplagia quadripunctaria* (Poda) [I?/R(t)?/V?]

DORSET (9): nr. Burton-Bradstock, 31.7 - 4, including 1 ab. *lutescens* and one with orange hindwings; 7.8 - 2 including one with orange hindwings (Parker 1992); Portland, 8.8 - 1 ab. *lutescens* (Langmaid 1993); Portland, 5.8 - 1 (MC); EAST SUSSEX (14): Eastbourne, 5.8 - 1 recorded at rest by day (J. Sellens per CRP).

NOLIDAE**Kent Black Arches *Megala albula* (Denis & Schiffermüller) [I?/V?]**

SOUTH-EAST YORKSHIRE (61): Spurn, 29.7 - 1 (BS).

NOCTUIDAE**Great Dart *Agrotis crassa* (Hübner) [I]**

DORSET (9): Portland, 30.7 - 1 (MC).

Purple Cloud *Actinotia polyodon* (Clerck) [I]

SOUTH ESSEX (18): Bradwell-on-Sea, 31.5 - 1 female (AJD).

Great Brocade *Eurois occulta* (Linnaeus) [I/V?]

WEST SUSSEX (13): Walberton, 8.7 - 1 (JTR per CRP); EAST KENT (15): Lydd, 5.7 - 1 male (KR per SPC); SOUTH ESSEX (18): Bradwell-on-Sea, 8.7 - 1 male; 17.8 - 1 male (AJD); WEST SUFFOLK (26): Bury St. Edmunds, 23.6 - 1 male (RE); NORTH LINCOLNSHIRE (54): Gibraltar Point, 10.7 (CH² & KW per RJ); BANFFSHIRE (94): near Cornhill, 15.8 - 1; 16.8 - 1; 8.7 - 1 (RL); ORKNEY ISLANDS (111): Costa, Birsay, 11.8 - 1 (K. Fairclough per RIL); Orphir, 10.8 - 1; 12.8 - 1; 17.8 - 1, also an additional record between 10.8 & 17.8 but precise date not given (RIL); SHETLAND ISLANDS (112): Baltasound, 15.8; 16.8; 17.8; 24.8 - 2 (MGP); Toab, 14.8 (J. & A. Clifton per MGP).

Summary: (13): 1; (15): 1; (18): 2; (26): 1; (54): 1; (94): 3; (111): 5; (112): 6.

Pale Shining Brown *Polia bombycina* (Hufnagel) [I]

EAST KENT (15): New Romney, 30.6 - 1 of grey continental form (KR per SPC).

White-point *Mythimna albipuncta* (Denis & Schiffermüller) [I/R(t)?]

WEST CORNWALL (1): Coverack, The Lizard, 17.9 - 1; 18.9 - 1 (DB); Kynance, The Lizard, 19.8 - 2; 20.8 - 1 (DB); St. Agnes, Isles of Scilly, 7.6 - c.5; 15.9 (JWH & MEH); SOUTH DEVON (3): nr. East Prawle, 19.9 (Baker 1993); SOUTH SOMERSET (5): Crewkerne, 31.8 - 1 male (Reid 1993); DORSET (9): Corfe, 29.8 - 1; 3.9 - 1; 4.9 - 1; 18.9 - 1; 19.9 - 2; 20.9 - 1 (DB² per RJHM); Durlston, 6.9 - 1; 17.9 - 1 (PD); 25.5 - 2 (JC); Durlston Country Park, 20.8 - 2; 17.9 - 1 (RCK); 8.6 - 1; 21.8 - 1; 18.9 - 4; 20.9 - 1 (RJHM); 30.7 - 5; 8.8 - 2 (PD); 9.9 - 1 (per RJHM, recorder not given); Gaunts Common, 18.8 - 1; 17.9 - 1 (PD); Portland, 23.5 - 1; 24.6 - 1; 20.8 - 1; 21.8 - 1; 29.8 - 2 and 5 more to 18.9 (MC); Radipole School, Weymouth, 16.9 - 1; 20.9 - 1 (NA); St. Albans Head (= St. Aldhelm's Head), 27.5 - 1; 7.8 - 1; 26.9 - 1 (PD); Studland, 1.8 - 1 (DB); Swanage, 25.5 - 1; 22.9 - 1; 27.9 - 1 (DB); West Bexington, 4.6 - 1; 6.6 - 2; 10.6 - 1; 18.8 - 2; 21.8 - 1; 19.9 - 1 (RME); ISLE OF WIGHT (10): Chale Green, 23.6 - 1; 24.6

- 1; 28.6 - 1; 7.9 - 1; 20.9 - 1 (SC per SAKJ); Freshwater, 7.9 - 1; 9.9 - 1; 12.9 - 1; 14.9 - 1; 18.9 - 1; 22.9 - 1; 28.9 - 1; 30.9 - 1 (SAKJ); Niton, 8.7; 2.8; 16.9 (AW per SAKJ); St. Lawrence, 12.9 - 1 female; 14.9 - 1 female; 15.9 - 2; 16.9 - 8; 17.9 - 1; 18.9 - 2 (JC); SOUTH HAMPSHIRE (11): Chilling, Warsash, 6.9 - 2 (PMP); Soberton, 20.8 - 1 (JRL); NORTH HAMPSHIRE (12): East Stratton, 15.8 - 1 (BI-J); WEST SUSSEX (13): Church Norton, 24.6 - 1 (JTR per CRP); Petworth, 21.8 - 1 (SPC); Walberton, 19.6 - 1; 21.6 - 1; 24.8 - 1; 25.8 - 1; 26.8 - 1; 27.8 - 2; 30.8 - 1; 1.9 - 2; 17.9 - 1; 19.9 - 1 (JTR per CRP); EAST SUSSEX (14): East Grinstead, 31.8 - (DH² per CRP); Icklesham, 17.8 - 1; 18.8 - 2; 22.8 - 1; 25.8 - 1; 28.8 - 1; 1.9 - 1 (IH per CRP); Kingston, 12.9 - 3 (DH² per CRP); Peacehaven, 21.7 - 1; 23.8 - 1; 9.9 - 1; 10.9 - 1; 14.9 - 1; 17.9 - 1; 18.9 - 1; 20.9 - 1 (CRP); EAST KENT (15): Densole, 26.8 - 2; 28.8 (TR); Dungeness, 23.5 - 1; 10.8 - 1; 22.8 - 1; 25.8 - 1; 28.8 - 1; 4.9 - 1; 5.9 - 1; 20.9 - 1; (DW per SPC); 27.5 - 1; 2.6 - 1; 18.8 - 1; 21.8 - 1; 25.8 - 2; 28.8 - 2; 9.9 - 1; 10.9 - 1; 13.9 - 1 (SPC); 8.8 (GAC); 25.9 (TR); Dymchurch, 5.9 - 1 (JO); Greatstone, 31.5 - 1; 15.8 - 1; 16.8 - 1; 20.8 - 2; 27.8 - 1; 8.9 - 1; 10.9 - 1; 17.9 - 1 (BB per SPC); Hamstreet, 12.9 - 1 (NRD per SPC); Kingsgate, 18.8 - 1 (FS per TWH); Lydd, 24.5 - 1; 31.5 - 1; 2.6 - 1; 4.6 - 1; 10.6 - 1; 11.6 - 1; 12.6 - 1; 14.6 - 1; 26.8 - 3; 27.8 - 2; 28.8 - 1; 31.8 - 1; 1.9 - 1 (KR per SPC); New Romney, 7.6 - 1, 7.8 - 1; 8.8 - 1; 28.8 - 1; 29.8 - 3 (KR per SPC); SURREY: Lingfield, 22.9 - 1 female (JC); SOUTH ESSEX (18): Bradwell-on-Sea, 4.8 - 1 male; 5.8 - 3 males, 1 female; 8.8 - 4 males; 9.8 - 7 males; 10.8 - 1 male; 13.8 - 1 male, 1 female; 14.8 - 2 males; 16.8 - 6 males; 17.8 - 3 males, 1 female; 18.8 - 4 males; 19.8 - 5 males; 20.8 - 12 males; 21.8 - 11 males; 23.8 - 1 female; 24.8 - 1 male; 25.8 - 4 males; 26.8 - 4 males; 27.8 - 2 males; 28.8 - 3 males; 29.8 - 1 male; 1.9 - 2 males; 2.9 - 2 males; 10.9 - 1 female; 19.9 - 1 male (AJD); 30.6 - 1 male; 10.8 - 1 male; 12.8 - 1 female; 17.8 - 1 male; 27.8 - 1 male (SD); NORTH ESSEX (19): Colne Point, 31.7 (RWA per GB²); Kirby Cross, 6.7 (R. Marsh per BG²); Kirby Cross, 6.7 (R. Marsh per BG²); St. Osyth, 18.8 (RWA per BG²); CHANNEL ISLANDS (113): Herm, between 21.8 and 28.8 (RJH per Austin (1992)); L'Ancrese, Guernsey, 31.5; 7.6; 21.8; 28.8; 4.9 (RAA); La Corbiere, Guernsey, 16.7 (GH, FH & DP per RAA); Le Bigard, Guernsey, 6.7 - 1 (GH, FH & DP per RAA); Petit Bot, Guernsey, 7.7; 12.7 (RAA); 14.7 (GH, FH & DP per RAA); Talbot Valley, Guernsey, 5.7 (RAA); The Dell, Guernsey, 11.7 (RAA).
 Summary:(1): 11; (3): 1; (5): 1; (9): 60; (10): 31; (11): 3; (12): 1; (13): 15; (14): 19; (15): 59; (17): 1; (18): 90; (19): 3; (113): 13.

The Delicate *M. vitellina* (Hübner) [I/R(t)?]

Summary only: The vice-county number is given in brackets, followed by the number of individuals sighted in each vice-county (or county). Where no numbers were given for an individual record, it was taken to be one. Hence, the totals are likely to be approximate. This is followed by the monthly representation of the records. In a very few cases it was impossible to assign a given record to an individual month. As with the totals for the vice-counties, the monthly totals are likely to be approximate.

(1): 4852; (2): 30; (3): 72+; (5): 25; (6): 5; (8): 7; (9): 2040+; (10): 265; (11): 76; (12): 35; (13): 53; (14): 40; (15): 226; (17): 7; (18): 53; (19): 9; (22): 4; (23): 6; (24): 2; (26): 1; (27): 1; (28): 3; (29): 1; (31): 1; (32): 1; (33): 2; (38): 9; (41): 3; (45): 18; (49): 3; (56): 1; (61): 2; (63): 1; (64): 2; (69): 5; (71): 182; (72): 1; (113): 154; (H15): 9.

May: 431; June: 77; July: 5; August: 3355; September: 3687; October: 134; November: 6.

Earliest date: 15.5 - 9, Portland, Dorset (9) (MC).

Latest date: 9.11 - Freshwater, Isle of Wight (10) (SAKJ).

L-album Wainscot *M. l-album* (Linnaeus) [I?/R?]

Note: Records outside Sussex to Cornwall only.

EAST KENT (15): Densole, 28.9; 29.9; 30.9; 29.10 (TR); Dungeness, 28.9 - 1 (SPC); 29.9 (TR); Greatstone, 24.9 - 1 (BB per SPC); Ham Fen, 10.7 - 1 female (JC); Littlestone, 21.9 - 1 (KR per SPC); The Warren, 12.6; 26.9 (TR).

White-speck *M. unipuncta* (Haworth) [I]

WEST CORNWALL (1): Coverack, the Lizard, 15.9 - 1; 17.9 - 2 (DB); St. Agnes, Isles of Scilly, 1.8; 6.9 - 1 to greenhouse light; 14.9 (to sugar); 15.9; 15.9 (to sugar); 16.9 (to sugar); 17.9; 24.9; 26.9 - 2; 30.10 - 2; 4.11; 7.11; 14.11 (JWH & MEH); DORSET (9): Durlston, 5.1 - 1 (PD); Durlston Country Park, 25.5 - 2 (recorder not given, per RJHM); Portland, 22.4 - 1; 10.9 - 1 (MC); West Bexington, 17.8 - 1; 20.8 - 1; 21.8 - 1 (RME); ISLE OF WIGHT (10): Freshwater, 23.9 - 1 (SAKJ); EAST SUSSEX (14): Holywell, 27.9 - 1 (MSP); Icklesham, 31.8 - 1 (IH per CRP); SOUTH ESSEX (18): Bradwell-on-Sea, 30.9 - 1 female (AJD); BUCKINGHAMSHIRE (24): Marlow Common, no date given (Wedd 1993); DERBYSHIRE (57): Chesterfield (BE per Viles 1995); ISLE OF MAN (71): Castletown 27.9 - 1; 28.9 - 1; 29.9 - 4 (GDC).

Summary: (1): 18; (9): 8; (10): 1; (14): 2; (18): 1; (24): 1; (57): 1; (71): 6.

The Cosmopolitan *M. loreyi* (Duponchel) [I]

WEST CORNWALL (1): Coverack, the Lizard, 14.9 - 1; 15.9 - 4; 16.9 - 4; 17.9 - 30; 18.9 - 50; 19.9 - 15; 20.9 - 6 (DB); Kynance, The Lizard, 19.8 - 100+; 20.8 - 20 (DB); Marazion, 19.9 - 1; 21.9 - 5; 23.9 - 2; 24.9 - 3; 25.9 - 2 (RD²); Praa Sands, nr. Helston, 19.5 - 3; 20.5 - 4; 21.5 - 2; 22.5 - 4 (RD²); St. Agnes, Isle of Scilly, 15.9; 15.9 (to sugar); 16.9 (to sugar); 18.9 (to sugar) (JWH & MEH); The Lizard, 8.8 - 2; 9.8 - 1; 11.8 - 1; 14.8 - 4 (AG); 19.8 - 100+ (Jenkins 1993); Tregarne, Cusgame, 9.9 - 1; 13.9 - 1 (AS); EAST CORNWALL (2): Carlyon Bay, St. Austell, 8.8 - 2; 11.9 - 1; 18.9 - 1 (WGK); Kings Wood, nr. St. Austell, 5.9 - 1 (WGK); Talland Bay, 5.6 - 1 (AS); Trevarrick Bay, St. Austell, 9.9 - 2 (WGK); SOUTH DEVON (3): Abbotskerswell, 17.9 - 1 female (BPH & Henwood 1993); nr. East Prawle, 18.9 - 1 female; 19.9 - "several" (18 recorded during stay in Devon) (Baker 1993); Heybrook Bay, 18.9 - 1 at ivy (RJH); nr. Shaldon, 18.9 - 1 (Baker 1993); Orchaton nr. Modbury, 6 - 1 female at house lights. Exact date not given: 10.8 - 1 male at sugar (Dr R. Dickson, det. JRL); Saltacrease, Kingston, 13.9 - 1 (AK); South Allington, 19.9 - 1 (AK); Teignmouth, 18.9 - 1 (B.R. Baker per N. Cleere); Torquay, 26.9 - 1 at ivy (RJH & BPH); SOUTH SOMERSET (5): Kingsbury Episcopi, 27.5; 18.8 (RC per KB); Yeovil, 27.9 (J. Day per KB); NORTH SOMERSET (6): Churchill, exact date not given (DJLA per KB); SOUTH WILTSHIRE (8): Dinton, 7.8 - 1 (SMP); DORSET (9): Corfe, 26.8 - 3; 3.9 - 1 (DB² per RJHM); Durlston, 17.9 - 1 (PD); Durlston Country Park, 19.8 - 2 (recorder not given per RJHM); 20.8 - 2 (RCK); Gaunts Common, 15.8 - 1; 18.8 - 1; 25.8 - 1 (PD); Langton Matravers, 18.9 - 1 female (DHH); Portland, 15.5 - 2; 19.5 - 1 20.5 - 1; 25.7 - 1; 7.8 - 1; 8.8 - 3; 9.8 - 2; 10.8 - 1; 19.8 - 2; 20.8 - 3; 21.8 - 1; 22.8 - 3; 29.8 - 4; 16.9 to 27.9 - 10 (MC); 10.8 (RD); Portland, Freshwater Bay, 8.8 - 1 (JEC); Radipole School, Weymouth, 19.9 - 1 (NA); St. Albans Head, 20.9 - 3 (PD); Swanage, 22.9 - 1 (DB); West Bexington, 15.9 - 1 (RME, det. DO); Wimborne, 18.8 - 1 female (Cook 1993); ISLE OF WIGHT (10): Chale Green, 23.5 - 1; 6.8 - 1 (given as 9.8 in Colenutt (1993)) (SE per SAKJ); St. Lawrence, 12.9 - male (JC); SOUTH HAMPSHIRE (11): Chandlers Ford, 6.8 - 1 (BG); Southsea, 10.9 - 1 (JRL); Winchester, 27.8 (Sterling *et al* 1993); Woolston, 13.9 - 1 (ARC); NORTH HAMPSHIRE (12): Bentley, 29.8 - 1 (ARC); East Stratton, 4.9 - 1 (BI-J); WEST SUSSEX (13): Pagham, 15.8 - 1 female (RMc); Walberton, 28.8 - 1; 2.9 - 1 (JTR per CRP); EAST SUSSEX (14): Peacehaven, 8.9 - 1; 10.9 - 1; 26.9 - 1 (CRP); EAST KENT

(15): Dymchurch, 1.8 - 1 (JO); Greatstone, 16.8 - 1; 21.8 - 1; 22.8 - 1; 1.9 - 1; 18.9 - 1 (BB per SPC); Kingsgate, 27.8 - 1 (FS per TWH); Lydd, 26.8 - 1 (SPC); SURREY (17): Lingfield, 22.9 - male (JC); SOUTH ESSEX (18): Bradwell-on-Sea, 25.8 - male (AJD); HERTFORDSHIRE (20): Harpenden, 31.8 - 1 (A.M. Riley); OXFORDSHIRE (23): Fernham, 16.9; 26.9 (Nash 1993); BUCKINGHAMSHIRE (24): locality not given, 8.8 (Harman 1993); GLAMORGAN (41): Penpedairheol, 22.9 (ASH); PEMBROKESHIRE (45): Skokholm, 26.5 - 1; 27.5 - 1 (SP); ISLE OF MAN (71): Castletown, 18.9 - 1; 18.9 - 1 (separate individual to other record on this date); 19.9 - 1 (GDC); Scarlet, 20.9 - 1 drowned in cattle trough (GDC); CHANNEL ISLANDS (113): Guernsey, 24.8 - 1 on *Crithmum maritimum* flowers (RJH per Austin (1992)); St. Peter Port, Guernsey, 21.8 - 1 at rest on wall (RJH per Austin (1992)).

Summary: (1): 370+; (2): 8; (3): 28; (5): 3; (6): 1; (8): 1; (9): 57; (10): 3; (11): 4; (12): 2; (13): 3; (14): 3; (15): 8; (17): 1; (18): 1; (20): 1; (23): 2; (24): 1; (41): 1; (45): 2; (71): 4; (113): 2.

Toadflax Brocade *Calophasia lunula* (Hufnagel) [I?/V?]

SOUTH HAMPSHIRE (11): Southsea, 11.8 - 1 (JRL).

Red Sword-grass *Xylena vetusta* (Hübner) [I?/V?]

EAST KENT (15): Dymchurch, 20.4 - 1 (JO); SHETLAND ISLANDS (112): Eswick, 9 - 2 (Pennington 1993).

Sword-grass *X. exsoleta* (Linnaeus) [I?/V?]

NORTH LINCOLNSHIRE (54): Dalby House, 19.8 (B. Dawson per RJ); SHETLAND ISLANDS (112): Fair Isle, 23.4 - 1 (N. Riddiford).

Red-headed Chestnut *Conistra erythrocephala* (Denis & Schiffermüller) [I]

EAST KENT (15): nr. Whitstable, 19.3 - 1 female, ab. *glabra* (Platts 1993).

Tree-lichen Beauty *Cryphia algae* (Fabricius) [I]

ISLE OF WIGHT (10): Freshwater, 27.8 - 1 (Knill-Jones 1993); WEST SUSSEX (13): Walberton, 8.8 - 1 (JTR per CRP).

The Orache *Trachea atriplicis* (Linnaeus) [I]

CHANNEL ISLANDS (113): Forest, Guernsey, 7.7 - 1 (TNDP); Les Merriennes, Guernsey, 13.7 - 1 (GH, FH & DP per Austin (1992)).

Dumeril's Rustic *Luperina dumerilii* (Duponchel) [I]

DORSET (9): Eypes Mouth, 31.8 - 1 male (Reid 1993).

Small Mottled Willow *Spodoptera exigua* (Hübner) [I]

WEST CORNWALL (1): Coverack, The Lizard, 17.9 - 2 (DB); Tregarne, Cusgame, 19.5 - 1 (AS); SOUTH DEVON (3): East Budleigh, 24.5 - 1 (RJH); DORSET (9): Durlston Country Park, 20.9 - 1 (RJHM); Portland, 19.5 - 1; 29.5 - 1 (MC); NORTH HAMPSHIRE (12): East Stratton, exact date not given, but from end of 7. More than one record (BI-J); EAST SUSSEX (14): Crowborough, 14.5 - 1; 15.5 - 1 (MJS per CRP); Icklesham, 5.7 - 1; 25.8 - 1 (IH per CRP); EAST KENT (15): Kingsgate, 21.8 - 1 (FS per TWH); SOUTH ESSEX (18): Bradwell-on-Sea, 19.9 - 1 (AJD); 8.8 - 1 (SD); CO. CLARE (H9): Lehinch, 29.5 - 1 (AK).

Summary: (1): 3; (3): 1; (9): 3; (12): 1+; (14): 4; (15): 1; (18): 2; (H9): 1.

Marbled Clover *Heliothis virescens* (Hufnagel) [I?/V?]

SOUTH WILTSHIRE (8): Dinton, 8.8 - 4 (SMP); SOUTH ESSEX (18): Bradwell-on-Sea, 6.8 - 1 (SD); HUNTINGDONSHIRE (31): Church Farm, Yelling, 30.7 - 1 (BD); NORTHAMPTONSHIRE (32): Bretton, Peterborough, 29.6 (P. Kirby per Waring (1994)).

Scarce Bordered Straw *H. armigera* (Hübner) [I]

WEST CORNWALL (1): Coverack, The Lizard, 19.9 - 1 (DB); Kynance, The Lizard, 19.8 - 2 (AJ per DB); Lizard Point, 18.9 - 1 (DB); Marazion, 20.9 - 2; 25.9 - 1 (RD²); St. Agnes, Isles of Scilly, 8.8 - 2; 12.9; 17.9 - 2; 26.9 (JWH & MEH); The Lizard, 8.8 - 2 (AG); EAST CORNWALL (2): Carlyon Bay, St. Austell, 8.8 - 1 (WGK); Golant, nr. Fowey, 7.8 (IR² per DB); SOUTH DEVON (3): nr. East Prawle, 19.9 (Baker 1993); Plympton, 4.8 - 1 (RJH); SOUTH SOMERSET (5): Porlock, 18.8 - 1 (JR); Quantocks, 28.7 (EAFD per KB); Watchet, 30.9 (K. Leaver per KB); NORTH SOMERSET (6): Westonzoyland, 5.8 (D. Miller per KB); DORSET (9): Ashington, Wimborne, 31.8 - 1 (JF²); Church Ope Cove, Portland, 28.9 (ASH); Durlston, 2.10 - 1 male (JC); Durlston Country Park, 30.7 - 4; 8.8 - 5; 19.8 - 1 (PD); 20.8 - 5 (RCK); 28.9 - 1; 29.9 - 2 (RJHM); Gaunts Common, 19.8 - 3 (PD); Portland, 29.5 - 1; 1.8 - 1; 9.8 - 1; 15.8 - 1; 18.8 - 1; 20.8 - 1; 16.9 - 1; 2.10 - 1 (MC); 10.8 (RD); Portland, Freshwater Bay, 8.8 - 1 (JEC); St. Albans Head, 7.8 - 2; 20.9 - 1; 26.9 - 3; 27.9 - 2 (PD); Studland, 18.9 - 1 (DB); Swanage, Old Harry Rocks, 14.8 - 2 (SC²); West Bexington, 6.8 - 1 (RME, det. DO); SOUTH HAMPSHIRE (11): Chilling, Warsash, 7.8 - 1; 26.9 - 1 (PMP); Woolston, 23.9 - 1 (ARC); NORTH HAMPSHIRE (12): Bentley, 2.10 - 1 (ARC); East Stratton, 5.9 - 1; 28.9 - 1 (BI-J); SUSSEX: Brighton, 1.10 - 1, flying by day (AB per CRP); WEST SUSSEX (13): Pagham, recorded in late September - 1 (GAC per CRP); 29.9 (RMc); Pagham Harbour, 7.8 - 1 (PQW); Walberton, 3.8 - 1; 29.9 - 1 (JTR per CRP); EAST SUSSEX (14): Peacehaven, 27.7 - 1 (CRP); KENT: 18.10; 19.9 (Harman 1993); EAST KENT (15): Dungeness, 29.9 (TR); Greatstone, 3.9 - 1 (BB per SPC); 8.8 - 1 (SPC); Kingsgate, 16.8 - 1; 28.8 - 1 (FS per TWH); Littlestone, 22.9 - 1 (KR per SPC); New Romney, 25.9 - 1 (KR per SPC); SURREY (17): South Croydon, 28.9 (GAC); SOUTH ESSEX (18): Bradwell-on-Sea, 8.8 - 1; 18.8 - 1; 20.8 - 1; 21.8 - 1 (AJD); 3.8 - 1 female; 14.8 - 1; 19.8 - 1; 27.8 - 1 (SD); NORTH ESSEX (19): Takeley, 18.8 (DJLA per BG²); BERKSHIRE (22): Burghfield Common, 6.8 - 1 (Young 1993); Longworth, Abingdon, 3.10 - 1 (AK); Uffington, 3.8 (Classey 1993); OXFORDSHIRE (23): Long Wittenham, Abingdon, 1.8 - 1, 5.8 - 1 (DO); HUNTINGDONSHIRE (31): Ramsey Heights Clay Pits, 18.9 - 1 (NM per BD); EAST GLOUCESTERSHIRE (33): Hilcott End. Ampney Crucis, 19.8 - 1 female; 21.9 - 1 (APF); WARWICKSHIRE (38): Charlecote, 29.5 - 1; 24.7 - 1; 7.8 - 1; 21.9 - 1 (AG); Coventry, 3.7 - 1 (A. Kolaj per DB); Pillerton Priors, 7.8 - 1 (C. Ivin per DB); Rugby, 29.8 - 1 (Dr D. Porter per DB); STAFFORDSHIRE (39): Rugeley, 27.9 (SC²); GLAMORGAN (41): Caswell Bay, The Gower, 7/8.8 (Scanes 1993); NORTH LINCOLNSHIRE (54): South Cockerington, 29.9 (J. Jaines per RJ); ISLE OF MAN (71): Castletown, 9.10 - 1 (GDC).

Summary: (1): 15; (2): 2; (3): 2; (5): 3; (6): 1; (9): 46; (11): 3; (12): 3; Sussex: 1; (13): 5; (14): 1; Kent: 2; (15): 7; (17): 1; (18): 8; (19): 1; (22): 3; (23): 2; (31): 1; (33): 2; (38): 7; (39): 1; (41): 1; (54): 1; (71): 1.

Bordered Straw *H. peltigera* (Denis & Schiffermüller) [I]

WEST CORNWALL (1): Coverack, 18.9 - 1 (DB); Kynance, The Lizard, 19.8 - 3 (AJ per DB); Praa Sands, nr. Helston, 20.5 - 1; 21.5 - 1; 22.5 - 2 (RD²); St. Agnes, Isles of Scilly, 30.7; 8.8; 17.9 (JWH & MEH); EAST CORNWALL (2): St. Austell, 21.8 - 1 (R.

Jones per WGK); SOUTH DEVON (3): Branscombe, 25.5 - 1 (G. Martin); Starcross, 21.5 - 1 (AHD); SOUTH SOMERSET (5): Kingsbury Episcopi, 8.8 (RC per KB); Watchet, 6.6 (EAFD per KB); NORTH SOMERSET (6): Berrow, 23.7 (BES per KB); 25.7 (EAFD per KB); Shapwick Heath, date not given (EAFD per KB); locality not given, but grid ref. ST4160, 20.7 (M. Elvidge); DORSET (9): Ashington, Wimborne, 16.5 - 1 (JF²); Bournemouth, 23.7 (Dr S.E. Christmas); Corfe, 19.5 - 1 (DB² per RJHM); Durlston, 30.7 - 2; 8.8 - 2 (PD); Durlston Head, Swanage, 30.7 - 1 (GAC); 8.8 - 2 (DAY); Swanage (Durlston Country Park), 24.5 - 2; 25.5 - 1; 27.5 - 1; 31.5 - 2; 1.6 - 2; 22.7 - 1 (DB); 22.5 - 1; (recorder not given, per RJHM); 16.5 - 1; 22.5 - 1; 23.5 - 1; 28.5 - 3; 30.5 - 2; 8.6 - 2; 9.6 - 1; 9.7 - 5; 6.8 - 1; 18.9 - 7; 20.9 - 1 (RJHM); 25.5 - 1 (JC); Gaunts Common, 21.5 - 1 (PD); Portland, 12.6 - 1; 29.7 - 1; 31.7 - 1; 1.8 - 1; 7.8 - 1; 8.8 - 1; 9.8 - 4; 11.8 - 1 (MC); 24.5 - 1; 30.5 - 1; 6.6 - 1 (RD²); 10.8 (RD); Portland, Freshwater Bay, 8.8 - 1 (JEC); Radipole School, Weymouth, 28.9 - 1 (NA); St. Albans Head, 15.5 - 1; 23.5 - 6; 27.5 - 5; 29.5 - 2; 7.8 - 1 (PD); West Bexington, 31.5 - 2; 30.7 - 1; 6.8 - 1; 17.8 - 1 (RME); ISLE OF WIGHT (10): Chale Green, 23.5 - 1 (SC per SAKJ); Freshwater, 10.8 - 1 (SAKJ); Niton, 6.6 (AW per SAKJ); Ventnor, 18.5 (PHS per DHS); locality not given, 29.7 - 1 (ARC); SOUTH HAMPSHIRE (11): Chandlers Ford, 15.5 - 1; 2.8 - 1 (BG); Chilling, Warsash, 30.7 - 1 (PMP); Southsea, 27.5 - 1; 7.8 - 1 (JRL); Totton, 20.7 - 1; 21.7 - 2; 23.7 - 1 (MJ); Woolston, 1.8 - 1; 21.9 - 1 (ARC); NORTH HAMPSHIRE (12): Bentley, 17.8 - 1 (ARC); WEST SUSSEX (13): Littlehampton, 7.8 - 1 (Mrs R. Pratt per CRP); Pagham Harbour, 26.9 - 12 larvae; 27.9 - 20 larvae (per DB); Walberton, 20.5 - 1; 27.5 - 1; 1.8 - 1 (JTR per CRP); EAST SUSSEX (14): Crowborough, 25.5 - 1 (MJS per CRP); 29.9 (Simmons 1993); Hastings, 25.7 - 1 (HN per CRP); Icklesham, 27.5 - 1 (IH per CRP); Peacehaven, 20.5 - 1; 6.8 - 1 (CRP); Ringmer, 27.7 - 1 (AB per CRP); EAST KENT (15): Densole, 1.8 (TR); Dungeness, 25.7 - 1; 31.7 - 2; 1.8 - 1; 2.8 - 1; 5.8 - 1; 10.8 - 1; 16.8 - 2; 17.8 - 1; 20.8 - 2 (DW per SPC); 22.7 - 1; 31.7 - 1; 9.8 - 1; 21.8 - 1 (SPC); 29.7 - 1 (KR per SPC); Dymchurch, 25.5 - 1; 9.8 - 1; 10.8 - 1 (JO); Greatstone, 15.5 - 1 (BB per SPC); Kingsgate, 22.8 - 1 (FS per TWH); Lydd, 21.5 - 1; 1.7 - 1; 9.7 - 2; 1.8 - 2; 28.9 - 1 (KR per SPC); Newington, 23.7 (REL); The Warren, 31.7 (TR); SURREY (17): Nutfield, 2.8 (P.A. Cordell per RMc); SOUTH ESSEX (18): Bradwell-on-Sea, 1.8 - 1; 6.8 - 1 (AJD); 3.8 - 1 male (DS); NORTH ESSEX (19): Jaywick, 1.8; 29.9 (J. Young per BG²); St. Osyth, 1.8 (RWA per BG²); OXFORDSHIRE (23): Long Wittenham, Abingdon, 31.5 - 1 (DO); EAST NORFOLK (27): Filby, 5.9 - daytime observation (K.G. Saul per DH); Winterton, 29.8 (PC² per DH); WEST NORFOLK (28): Rockland, 26.5 (PGC per DH); HUNTINGDONSHIRE (31): Brampton Wood, 7.8 - 1 (BD); St. Ives, 31.7 - 1 found feeding on Buddleia (J.N. Greaterex-Davies per BD); NORTHAMPTONSHIRE (32): Hazelborough Wood, Silverstone, 25.9 - 1 (DHH); Helpston, 23.5 (M. Hillier per Waring (1994)); Kettering, 29.8 - 1 at Buddleia (JW); Werrington, Peterborough, 29.7 - 1 (Waring 1994); WARWICKSHIRE (38): Bearly, 28.5 - 1 (IR² per DB); Bidford on Avon, 22.5 - 1; 26.5 - 2; 27.5 - 1 (RC² per DB); Charlecote, 28.5 - 1 (DB); PEMBROKESHIRE (45): Skokholm, 26.5 - 1; 27.5 - 2 (SP); NORTH LINCOLNSHIRE (54): Gibraltar Point, 26.7 (CH² & KW per RJ); Little Cawthorpe, 9.8 (G. Wright per RJ); SOUTH-EAST YORKSHIRE (61): Cottingham, 27.5 (PC per PQW); 29.9 - 1 (PC); Spurn, 24.7 - 1 feeding on sea holly (BS); WESTMORLAND (69): South Walney, 14.7 - 1 (T. Dean per DWK); CUMBERLAND (70): St. Bees, 5 (M. Preece per DWK); ISLE OF MAN (71): Castletown, 24.5 - 1; 29.5 - 2; 8.8 - 1 (GDC); 18.9 - 1 (recorder not given, per GDC); CHANNEL ISLANDS (113): L'Ancrese, Guernsey, 31.5 - 1 (Austin 1992); Forest, Guernsey, 27.5 - 4; 8.6 - 1; 20.9 - 2 (TNDP); CO. KERRY: Ballahachigüe, Listowel, 2.6 (J.N. Lavery); LIMERICK (H8): Limerick, 22.8 - 4 larvae

on *Calendula* (DJW); CO. CLARE (H9): The Burren, Kilnaboy, 19.8 - 3 larvae on *Calendula* (DJW); Lehigh, 29.5 - 1 (AK); SOUTH-EAST GALWAY (H15): Leigh South, 1.6 "a few"; 5.6 - 2 (BE & BFS, see also Elliott & Skinner 1993).

Summary: (1): 8; (2): 1; (3): 2; (5): 2; (6): 4; (9): 84; (10): 5; (11): 11; (12): 1; (13): 4 (+ 32 larvae); (14): 7; (15): 32; (17): 1; (18): 3; (19): 3; (23): 1; (27): 2; (28): 1; (31): 2; (32): 4; (38): 6; (45): 3; (54): 2; (61): 3; (69): 1; (70): 1; (71): 5; (113): 8; Co. Kerry: 1; (H8): 4 larvae; (H9): 1 (+ 3 larvae); (H15): 4+.

Eastern Bordered Straw *H. nubigera* (Herrich-Schäffer) [I]

DORSET (9): Swanage (Durlston Country Park), 14.5 (Skinner 1993).

Purple Marbled *Eublemma ostrina* (Hübner) [I]

CORNWALL: Brae Hill, Rock, 8.7 - 6 larvae recorded on *Carlina vulgaris* (Hoare 1993); WEST CORNWALL (1): Praa Sands, nr. Helston, 22.5 - 1 (RD²); Kynance, The Lizard, 19.8 - 1 (DB); The Lizard, 9.8 - 1; (AG); SOUTH SOMERSET (5): Kingsbury Episcopi, 23.5 (RC per KB); Porlock, 23.5 (JR); DORSET (9): Corfe, 21.5 - 1 (DB² per RJHM); Durlston Country Park, 26.5 - 1 (JC); Portland, 20.5 - 1; 21.5 - 1; 9.8 - 1; 19.8 - 1; 23.9 - 1 (MC); St. Albans Head, 27.5 - 2 (PD per BFS); Swanage, 14.5 - 3 (BFS); Swanage, 25.5 - 1 (DB); ISLE OF WIGHT (10): Chale Green, 20.5 - 3 (SC per SAKJ, given as 21.5 in Colenutt (1993)); Freshwater, 26.8 - 1 f. *carthami* (SAKJ); SOUTH HAMPSHIRE (11): Chilling, Warsash, 15.5 - 1 (PMP); Bishop's Waltham, 8.8 - 1 (Dr J. Fisher per BFS, see also Hipperson (1993)); WEST SUSSEX (13): Walberton, 14.5 - 1 typical form (JTR per CRP); EAST SUSSEX (14): Ringmer, 23.7 - 1 (AB per CRP); EAST KENT (15): Ashford, no date given (Clancy 1993); Dungeness, 21.5 - 1 (SPC); Greatstone, 10.8 - 1 f. *carthami* (BB per SPC); NORTH ESSEX (19): Takeley, 25.8 (Agassiz 1993); OXFORDSHIRE (23): Fernham, 21.8 - 1 (SN per BFS); PEMBROKESHIRE (45): Skokholm, 26.5 - 1; 27.5 - 1 (SP); WESTMORLAND (69): Elterwater, 12.9 - 1 (J. Whittle per DWK); SOUTH KERRY (H1): Castle Gregory 5.5 (M. Daly per KGMB); CO. CLARE (H9): The Burren, 14.8; 15.8, larvae/pupae found; 17.8, larvae/pupae found. A total of 17 bred (Elliott & Skinner 1993); 19.8 (BFS); The Burren, 20.8 - 1 (DJW); SOUTH-EAST GALWAY (H15): Inisheer, Aran Islands, 19.8, evidence of *ostrina* found by BFS and J. Skinner, 3 bred out. (Elliott & Skinner 1993); CO. CLARE (H9): Flaggy Shore, .8 - 1 larvae (DJW).

Summary: Cornwall: 6 larvae; (1): 3; (5): 2; (9): 13; (10): 4; (11): 2; (13): 1; (14): 1; (15): 3; (19): 1; (23): 1; (45): 2; (69): 1; (H1): 1; (H9): 1 and several larvae; Co. Galway: larvae; (H9): 1 larva.

Small Marbled *E. parva* (Hübner) [I]

DORSET (9): St. Albans Head, 27.5 - 2 (PD).

Silver Barred *Deltote bankiana* (Fabricius) [I?V?]

SOUTH ESSEX (18): Bradwell-on-Sea, 6.6 - 1 (SD); NORTH ESSEX (19): Harwich, 12.6 (P. Smith per BG²).

Golden Twin-spot *Chrysodeixis chalcites* (Esper) [I]

WEST CORNWALL (1): Lizard Point, 18.9 - 1 (AG); NORTH ESSEX (19): Thorpe-le Soken, 19.9 - 1 (T. Gosling per DB); EAST NORFOLK (27): Hemsby, 23.9 (K.J. Brett per DH); Overstrand, nr. Cromer, 28.9 - 1; 2.10 - 1 (RC² per DB); Winterton, 27.9 - 2 (PC² per DH); SOUTH-EAST YORKSHIRE (61): Spurn, 20.9 - 1 (BS).

Scar Bank Gem *Ctenoplusia limbirena* (Guenée) [I]

DORSET (9): Durlston Country Park, 17.9 (Kolaj 1993).

The Ni Moth *Trichoplusia ni* (Hübner) [I]

WEST CORNWALL (1): Marazion, 20.9 - 1 (RD²); Coverack, The Lizard, 17.9 - 2 (AG & DB); 18.9 - 3 (DB); 8.8 - 2 (AG); SOUTH DEVON (3): Colyton, 12.9 - 1 found on a wall (per BFS); Plympton, 25.7 - 1; 29.7 - 1; 1.8 - 1 (RJH); NORTH SOMERSET (6): Berrow, 22.7 (BES per KB); DORSET (9): Durlston, 30.7 - 2; 8.8 - 1 (PD); Durlston Country Park, 24.7 (recorder not given, per RJHM); Gaunts Common, 26.7 - 1; 30.7 - 1; 18.9 - 1 (PD); Portland, 10.8 - 1 (RD); 11.7 - 1; 15.7 - 1; 27.7 - 1; 31.7 - 1; 6.8 - 1; 18.8 - 1; 20.8 - 1 (MC); 8.8 - 1 (JRL & RJH); Portland, Freshwater Bay, 8.8 - 2 (JEC); St. Albans Head (= St. Albhelm's Head), 7.8 - 2 (PD & Davey 1993); Swanage, 22.7 - 1 (per DB); West Bexington, 6.8 - 1 (RME det. DO); SOUTH HAMPSHIRE (11): Brockenhurst, 17.9 - 1 (JEC); Chandlers Ford, 8.8 - 1 (BG); Southsea, 21.7 - 1 (JRL); Totton, 25.7 - 1 (MJ); Winchester, 28.7 - 1; 31.7 - 1 (Sterling *et al* 1993); Woolston, 26.7 - 1 (ARC); NORTH HAMPSHIRE (12): Bentley, 7.8 - 1 (ARC); EAST SUSSEX (14): Normans Bay, 23.7 - 1 (MJS per CRP); SURREY (17): South Croydon, 19.7 - 1 (GAC); SOUTH ESSEX (18): Bradwell-on-Sea, 21.7 - 1 female, 22.7 - 1 female; 30.7 - 1 male; 4.8 - 1 female; 8.8 - 1 male (AJD); 28.7 - 1 male; 30.7 - 1 male (SD); BERKSHIRE (22): Wash Common, 30.7 - 1 male; 6.8 - 1 (N. Cleere, see Baker (1994)); OXFORDSHIRE (23): Fernham, 19.8 - 1 (SN per BFS); WEST NORFOLK (28): Hockwold, 29.7 - 1 (JF); HUNTINGDONSHIRE (31): Ramsey Heights, 25.7; 28.8 (NM per BD); NORTHAMPTONSHIRE (32): Kettering, 2.8 - 1, to actinic (JW); WARWICKSHIRE (38): Pillerton Priors, 2.8 - 1 (C. Ivin per DB); GLAMORGAN (41): Caswell Bay, The Gower, 7.8; 8.8 (Scanes 1993); Penpedairheol, 31.7 - 1 (ASH); CO. CLARE (H9): The Burren, Mullaghmore, 8. - larval record (2 larvae found, 1 died). On *Hieracium* (Elliott & Skinner 1993); SOUTH-EAST GALWAY (H15): Leigh South, 1.6 - 1 (BE & BFS, see also Elliott & Skinner 1993).
 Summary: (1): 8; (3): 4; (6): 1; (9): 22; (11): 7; (12): 1; (14): 1; (17): 1; (18): 7; (22): 2; (23): 1; (28): 1; (31): 2; (32): 1; (38): 1; (41): 3; (H9): at least 1 larva; (H15): 1.

Dewick's Plusia *Macdunnoughia confusa* (Stephens) [I]

DORSET (9): Gaunts Common, 28.8 - 1 (PD); EAST KENT (15): Ashford, 31.8 - 1 male (J. Chandler per SPC); SURREY (17): Buckland, 20.8 (CH per BFS); WEST GLOUCESTERSHIRE (34): Slimbridge, 18.9 (NW per RG); CHANNEL ISLANDS (113): Forest, Guernsey, 13.9 - 1 (TNDP).

Gold Spangle *Autographa bractea* (Denis & Schiffermüller) [I?V?]

Note: Records outside known resident range only.

BUCKINGHAMSHIRE (24): Marlow, 3.8 (DJW).

Lunar Double-stripe *Minucia lunaris* (Denis & Schiffermüller) [I]

DORSET (9): Swanage, 21.5 - 1; 24.5 - 1 (DB); EAST SUSSEX (14): Hastings, 24.5 - 1 to sugar (NH per CRP); SOUTH ESSEX (18): Bradwell-on-Sea, 28.5 - 1 male (AJD); WEST NORFOLK (28): East Winch Common, 30.5 - 1 (DH).

ANNEXE 2: SELECTED RECORDS OF "COMMONER" SPECIES

This annexe gives a very brief summary of the abundance over the year as well as the earliest and latest date for the more frequent immigrant species which are not covered in Annexe 1. Other significant records or observations for 1992 which have been received and were not covered in Annexe 1, such as large numbers of an individual species or unusual records of resident species which may be the result of migrant activity, are also given.

YPONOMEUTIDAE***Plutella xylostella* (Linnaeus)**

Earliest date: SOUTH DEVON (3): Starcross - 1 (AHD); Dorset (9): Gaunts Common - 1 (PD); SOUTH HAMPSHIRE (11): Sparsholt - 1 (AHD), all on 13.5.

Latest date: DORSET (9): Durlston, 5.11 - 2 (PD).

Other significant records: DORSET (9): St. Albans Head, 19.5 - c.40; 31.5 - 40 (PD).

PYRALIDAE***Udea ferrugalis* (Hübner)**

Earliest date: DORSET (9): Tregarne, Cusgarne, 12.5 (AS).

Latest date: ISLE OF WIGHT (10): Freshwater, 30.11 (SAKJ).

Other significant records: WEST CORNWALL (1): Coverack, The Lizard, 17.9 - 50; 18.9 - 30 (DB); Kynance, The Lizard, 19.8 - 50+ (DB); DORSET (9): Portland, 21.7 - 24 (MC).

***Nomophila noctuella* (Denis & Schiffermüller)**

Earliest date: DORSET (9): Portland, 17.3 - 1 (MC).

Latest date: SURREY (17): Leigh, 4.11 - 2 (R. Fairclough).

Other significant records: WEST CORNWALL (1): Coverack, The Lizard, 17.9 - 200+; 18.9 - 100+ (DB); Kynance, The Lizard, 19.8 - 100+ (DB); DORSET (9): Durlston Country Park, 14.5 - 15 (RJHM); Portland, 18.8 - 107 (MC); ISLE OF WIGHT (10): St. Lawrence, 16.9 - 20 (JC).

PIERIDAE**Large White *Pieris brassicae* (Linnaeus)**

Possible significant records only: DORSET (9): Portland, strong northward movement in off the sea on 14.5 & 15.5 (MC); WEST SUSSEX (13): Pagham Harbour, 7.8 - 1 at m.v. light (PQW); EAST SUSSEX (14): Peacehaven, 20.7 - 2, both caught in m.v. light trap (CRP); EAST KENT (15): Sandwich Bay Bird Observatory, 15.7 - "many thousands" seen flying in off the sea; 16.7 - "no sign of diminution . . . spot counts . . . 362 insects per minute"; 7 - "movement continued . . . for the next ten days" (Mendel 1995); WEST KENT (16): near Orpington, 18.7 - c.500 seen in a field moving due east (PAS); SURREY (17): Hooley, 19.7 - c.100 seen in a field (PAS); NORTH ESSEX (19): Hamford Water, Little Oakley, 18.7 - "huge and extraordinary numbers" (Mrs E.M. Parsons per Mendel (1995)); EAST SUFFOLK (25): Dunwich, 18.7 - "hundreds . . . coming in off the sea" (JPB per Mendel (1995)); Languard Bird Observatory, 7 - "probably thousands"; Martlesham Heath, 7 - "large bed of lavender . . . covered with them" (Mendel 1995); half mile past Sunk Light Vessel, 14.7 - "huge swarm" heading towards east coast of Britain (Mrs J.M. Hannaford per Mendel (1995)); SOUTH-EAST YORKSHIRE (61): Spurn - huge influx on 24.7 when thousands were present, largely gone by 29.7 (BS).

Small White *P. rapae* (Linnaeus)

Possibly significant records only: NORTH ESSEX (19): Dovercourt, 24.5 - moderate numbers flying in from the sea (BG²); SOUTH-EAST YORKSHIRE (61): Spurn - huge influx when thousands were present, largely gone by 29.7 (BS).

NYMPHALIDAE**Red Admiral *Vanessa atalanta* (Linnaeus)**

Earliest date: CHANNEL ISLANDS (113): Guernsey, 1.2 (Austin 1992).

Latest date: DORSET (9): Portland (MC) & SOUTH-EAST YORKSHIRE (61): Spurn - 2 (BS), all on 8.11.

Other significant records: SOUTH ESSEX (18): Bradwell-on-Sea, 14.5 - 20; 18.5 - 21 (AJD); KINTYRE (101): Otter Ferry, 9.8 c.150 along c.1½ miles of shoreline (per DD); ORKNEY ISLANDS (111): Orphir, 6.6 - "major arrival" (RIL); SHETLAND ISLANDS (112): 10 - an "exceptional influx" between 1st and 5th October (per MGP). There were also records of *atalanta* being recorded at light traps from WEST CORNWALL (1) (AG & AS); DORSET (9) (DB, JEC & JC); ISLE OF WIGHT (10) (JC); SOUTH HAMPSHIRE (11) (JEC); EAST SUSSEX (14) (CRP); and HERTFORDSHIRE (20) (Townsend.1993).

Painted Lady *Cynthia cardui* (Linnaeus)

Earliest date: DORSET (9): Bournemouth, 1, exact date not given (Bowles 1992b).

Latest date: DORSET (9): Portland 26.10 - 1 (MC).

Other significant records: HERTFORDSHIRE (20): Harpenden, 8.7 - 1, at light (Townsend 1993).

NOCTUIDAE

Dark Sword-grass *Agrotis ipsilon* (Hufnagel)

Earliest date: OXFORDSHIRE (23): Long Wittenham, Abingdon, 3.3 - 1 (DO).

Latest date: SOUTH HAMPSHIRE (11): Chilling, Warsash, 21.11 - 1 (PMP).

Other significant records: WEST CORNWALL (1): Coverack, The Lizard, 17.9 - 30; 18.9 - 50 (DB); Kynance, The Lizard, 19.8 - 100+ (DB); DORSET (9): St. Albans Head, 7.8 - c.150 (PD); Durlston Country Park, 20.8 - 50+ (RCK); Portland, 18.8 - 14 (MC); ISLE OF WIGHT (10): St. Lawrence, 16.9 - 25 (JC).

Large Yellow Underwing *Noctua pronuba* (Linnaeus)

Possibly significant records only: DORSET (9): Durlston, 30.7 - c.2000 (PD); St. Albans Head, 7.8 - c.1500 (PD).

Pearly Underwing *Peridroma saucia* (Hübner)

Earliest date: ISLE OF WIGHT (10): Chale Green, 7.5 - 1 (SC per SAKJ).

Latest date: DORSET (9): Corfe, 25.11 - 2 (DB² per RJHM).

Other significant records: WEST CORNWALL (1): Coverack, The Lizard, 17.9 - 50; 18.9 - 50 (DB); Kynance, The Lizard, 19.8 - 100+ (DB); DORSET (9): St. Albans Head, 7.8 - c.100 (PD); Durlston Country Park, 20.8 - 100+; 17.9 - 35 (RCK); Portland, 21.8 - 21 (MC); West Bexington, 17.9 - 31; 26.9 - 32; 27.9 - 62 (RME); ISLE OF WIGHT (10): St. Lawrence, 16.9 - 25 (JC); ISLE OF MAN (71): Castletown, 28.9 - 26 (GDC); ORKNEY ISLANDS (111): Orphir, 22.5 - 1 (JIL).

Angle Shades *Phlogophora meticulosa* (Linnaeus)

Possibly significant records only: SOUTH-EAST YORKSHIRE (61): Muston, nr. Filey, 26.9 - 114; 28.9 - 364 (PQW).

Silver Y *Autographa gamma* (Linnaeus)

Earliest date: SOUTH ESSEX (18): Bradwell-on-Sea, 5.1 - 1 (AJD).

Latest date: BERKSHIRE (22): Longworth, Abingdon, 26.11 (AK).

Selected significant records only: WEST CORNWALL (1): Kynance, The Lizard, 19.8 - 300+ (DB); DORSET (9): Durlston, 30.7 - c.200 (PD); Portland, 31.7 - 66; 7.8 - 36; 20.8 - 30 (MC); St. Albans Head, 7.8 - c.70 (PD); Swanage, 22.7 - 80 (DB); ISLE OF WIGHT (10): St. Lawrence, 16.9 - 30 (JC); SOUTH HAMPSHIRE (11): Chilling, Warsash, 22.7 - 33; 30.7 - 35 (PMP); EAST SUSSEX (14): Peacehaven, 19.7 - 70 (CRP); SOUTH ESSEX (18): Bradwell-on-Sea, 6.6 - 48; 12.7 - 47; 15.7 - 31; 16.7 - 30; 17.7 - 35; 21.7 -

57; 22.7 - 101; 23.7 - 115; 24.7 - 319; 25.7 - 203; 27.7 - 119; 8.8 - 28; 17.9 - 25; 27.9 - 34; 28.9 - 48; 29.7 - 37 (AJD); 23.7 - 27 (SD); NORTHAMPTONSHIRE (32): Werrington, 26.7 - 32 (Waring 1992); NORTH LINCOLNSHIRE (54): Gibraltar Point, c.8000 (in 8 light traps) (BD); SOUTH-EAST YORKSHIRE (61): Cottingham, 28.9 - 55 (PC); Spurn, 23.7 - hundreds by day; 24.7 - thousands by day (BS); 25.7 - 900 counted on sea holly in 18 minutes (PC); ISLE OF MAN (71): Castletown, 28.9 - 36 (GDC); KIRKCUDBRIGHTSHIRE (73): Auchenfad Forest (M.N. Rankin per Hancock (1994)); CHANNEL ISLANDS (113): Forest, Guernsey, 17.8 - 500+; 18.8 - 500+; 19.8 - 500+ (TNDP).

Initials of recorders

The recorders initials are listed alphabetically so that records can be extracted with relative ease.

AB	A. Batten	DAY	D.A. Young	NM	Mrs N. Mason
AFS	A.F. Silcocks	EAFD	E.A.F. Dean	NRD	N.R. Davies
AG	A. Gardiner	FH	F. Higgs	PAS	P.A. Sokoloff
AHD	A.H. Dobson	FS	F. Solly	PC	P. Crowther
AJ	A. Jenkins	GAC	G.A. Collins	PC ²	P. Cawley
AJD	A.J. Dewick	GAP	G.A. Pyman	PD	P. Davey
AK	A. Kennard	GDC	G.D. Crane	PGC	P.G. Cardy
AME	Lt. Col. A.M. Emmet	GH	G. Higgs	PHS	Dr P.H. Sterling
APF	A.P. Foster	GRE	G.R. Else	PMP	P.M. Potts
ARC	A.R. Collins	IH	I. Hunter	PQW	P.Q. Winter
ASH	A.S. Henderson	IR	I. Rippey	RAA	R.A. Austin
AS	A. Spalding	IR ²	I. Reid	RC	R. Clatworthy
AW	Mrs A. Wilkinson	JB	J. Bradley	RC ²	R. Cox
BB	B. Banson	JC	Dr J. Clarke	RCK	R.C. Kendrick
BD	B. Dickerson	JEC	J.E. Chainey	RD	R. Dyke
BE	B. Elliott	JF	J. Fenn	RD ²	R. Darlow
BES	B.E. Slade	JF ²	J. Fradgley	RE	R. Ely
BFS	B.F. Skinner	JO	J. Owen	REL	R.E. Lane
BG	B. Goater	JPB	J.P. Bowdrey	RET	R.E. Turley
BG ²	B. Goodey	JR	J. Robbins	RIL	R.I. Lorimer
BI-J	B. Ivor-Jones	JRL	J.R. Langmaid	RJ	R. Johnson
BPH	Dr B.P. Henwood	JTR	J.T. Radford	RJH	R.J. Heckford
BS	B. Spence	JW	J. Ward	RJHM	R.J.H. Murray
CH	C. Hart	JWH	J.W. Hale	RL	R. Leverton
CH ²	C. Hawke	KB	K. Brown	RMc	R. McCormick
CRP	C.R. Pratt	KC	K. Cooper	RME	R.M. Eden
DB	D. Brown	KGMB	K.G.M. Bond	RWA	R.W. Arthur
DB ²	D. Burt	KR	K. Redshaw	SAKJ	S.A. Knill-Jones
DD	D. Dey	KW	K. Wilson	SC	S. Colenutt
DH	D. Hipperson	LR	L. Rogers	SC ²	S. Cooper
DH ²	D. Harvey	MC	M. Cade	SD	S. Dewick
DHH	D.H. Howton	MEH	M.E. Hicks	SMP	S.M. Palmer
DHS	Col. D.H. Sterling	MGP	M.G. Pennington	SN	S. Nash
DJLA	D.J.L. Agassiz	MJ	M. Jeffes	SP	S. Price
DJW	D.J. Wedd	MJS	M.J. Simmons	SPC	S.P. Clancy
DO	Dr D. Owen	MRY	Dr M.R. Young	TNDP	T.N.D. Peet
DP	D. Pool	MSP	M.S. Parsons	TR	T. Rouse
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